



Department of Civil Engineering



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Newsletter Highlights

Alumni Connect

Workshop

Industrial Visit

VOLUME XIX, ISSUE IV
NEWSLETTER

Oct-Dec 2024

From Chief Editor's Desk

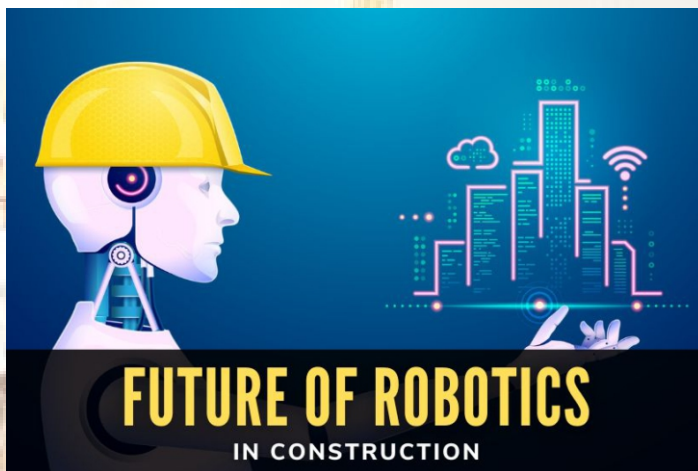


Prof. (Dr.) Tabassum Abbasi
HOD, Department of Civil Engineering

Dear Readers,

Civil engineering is not just about constructing buildings or bridges—it's about creating the foundation for a sustainable, resilient, and connected world. Every day, our department strives to lead and improvise in innovation, research, and education, preparing the next generation of engineers to meet global challenges with confidence and creativity.

Various guest lectures, alumni connect and industrial visits are organized during semester to improve knowledge of the students. Pre-placement training is offered to the final year students to make them industry ready.



Prof. (Dr.) Tabassum Abbasi
Chief Editor & HOD Dept. of CE

Education
is the most powerful weapon
which you can use to
Change the World

~Nelson mandela

Oct-Dec 2024

**VOLUME XIX, ISSUE IV
NEWSLETTER**

ROBOTICS AND AUTOMATION IN CIVIL ENGINEERING

Robotics and Automation in Construction represents a transformative approach to enhancing productivity, efficiency, and safety in the construction industry. These technologies leverage cutting-edge advancements in robotics, artificial intelligence (AI), machine learning, and automation to address challenges like labor shortages, high costs, and project delay.



Some of the recent trends are:-

- Increased Use of Robotics
- AI and Machine Learning
- Automated Construction Equipment
- Modular Construction
- 3D Printing

Emerging Trends in Robotics And Automation In Civil Engineering

- **Mass Customization:** Robotic systems enable bespoke, complex architectural designs without increasing costs or time.
- **On-Site Fabrication:** Portable robotic arms or drones build structures directly on-site, eliminating transportation logistics.
- **Smart Construction Sites:** Fully connected ecosystems using IoT, robotics, and AI to enable real-time coordination between equipment and workers.
- **Sustainability and Circular Economy:** Robotics systems for recycling construction waste and using sustainable materials align with green construction goals.

Challenges and Barrier

- **High Initial Costs:** Advanced robotics systems require significant upfront investment, which can deter smaller firms.
- **Integration with Legacy Systems:** Adapting automation to traditional construction workflows is complex and requires new standards.
- **Workforce Training:** Construction workers need re skilling to operate and maintain automated systems.
- **Regulation and Safety Concerns:** Safety standards and legal frameworks for autonomous construction systems are still evolving.

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ALUMNI CONNECT PROGRAM

Was Organized by Department Of Civil Engineering

An Alumni connect program was conducted by Civil Department on 21st Nov, 2024 from 11:00 am onwards. The speaker for the program was Mr. Deepanshu Sharma (Ex 2013). He is currently working as CEO & Founder of Growealth Developers Pvt. Ltd., Greater Noida. He interacted with his juniors about the hands-on experience with the latest tools, technologies, and techniques bridging between theoretical knowledge and real-world application. He had given an overview about the modern approaches such as incorporating smart technology into spaces or using augmented reality to visualize designs. He had also initiated them to attend design exhibitions, conferences, and trade shows where they can explore the latest trends and innovations in interior design. The interactions created a dynamic exchange where juniors benefited from the real-world knowledge and guidance of alumni, while alumni get to stay connected with fresh perspectives and emerging talent in the interior design field, the juniors got a taste of the practical experiences.



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ALUMNI CONNECT PROGRAM

Was Organized by Department Of Civil Engineering On
"PRIMAVERA"

The department organized One Day workshop on 'PRIMAVERA'. The Chief Guest and Speaker of the day was Mr. Satya Prakash Bindal, Senior Design Engineer, Civilmantra InfraCon Pvt Ltd. In this session they learn't how to set up and configure EVM in Primavera P6 EPPM and also learn't to use the tools to analyze and report on project performance. After completion of this course, learners were able to use EVM to manage project costs and schedules and had a deep understanding of how to leverage Primavera P6 EPPM to optimize project performance. The useful applications of software in project management helps participants develop skills to handle projects using Primavera, covering all basic features of the software available over web and offline.



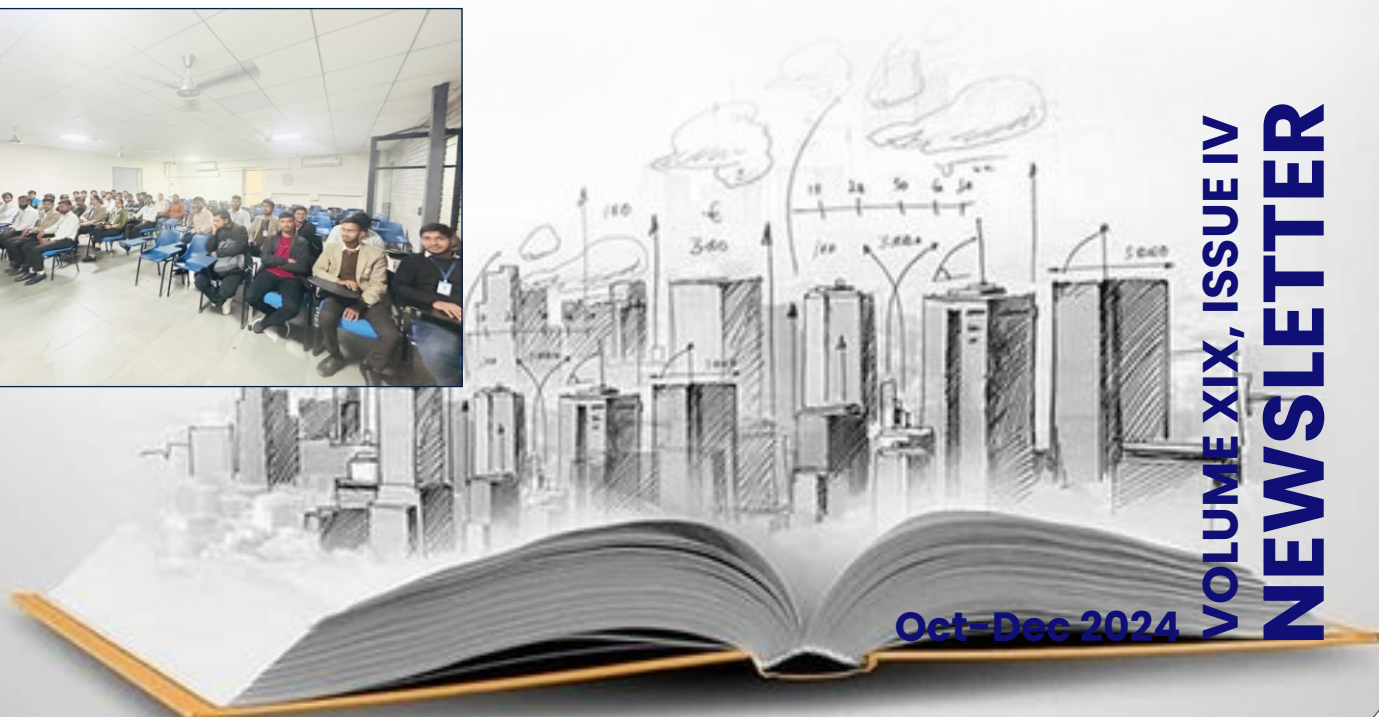
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WORKSHOP

Was Organized by Department Of Civil Engineering on "STAAD-PRO SOFTWARE"

Department of Civil Engineering also organised a Workshop on STAAD-PRO software. The expert for the event was Mr. Rishabh Gupta (Software Designer). The workshop was held at Ducat Training Centre, Sector-63, Noida on 5th Dec, 2024 from 11:am onwards. STAAD Pro is a structural analysis and design software application which can be useful in various forms of analysis from the traditional static analysis to more recent analysis method like p-delta analysis, geometric non-linear analysis etc. STAAD can be used for analysis and design all types of structural projects from plants, buildings, and tunnel, metro stations, water or wastewater treatment plants and more. Mr. Urmil Patel, Structural designer has explained the software with hands on experience to students. This workshop helped the students for the future to carry out structural analysis of RCC structure. There were almost 45 students and 4 faculties who had attended the workshop.



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INDUSTRIAL VISIT CUM SEMINAR

Was Organized by Department Of Civil Engineering

On 6 th December 2024, the Civil Engineering Department organized an industrial visit combined with a seminar for students to explore higher education opportunities in the fields of Construction Project Management and Construction Economics & Quantity Surveying.

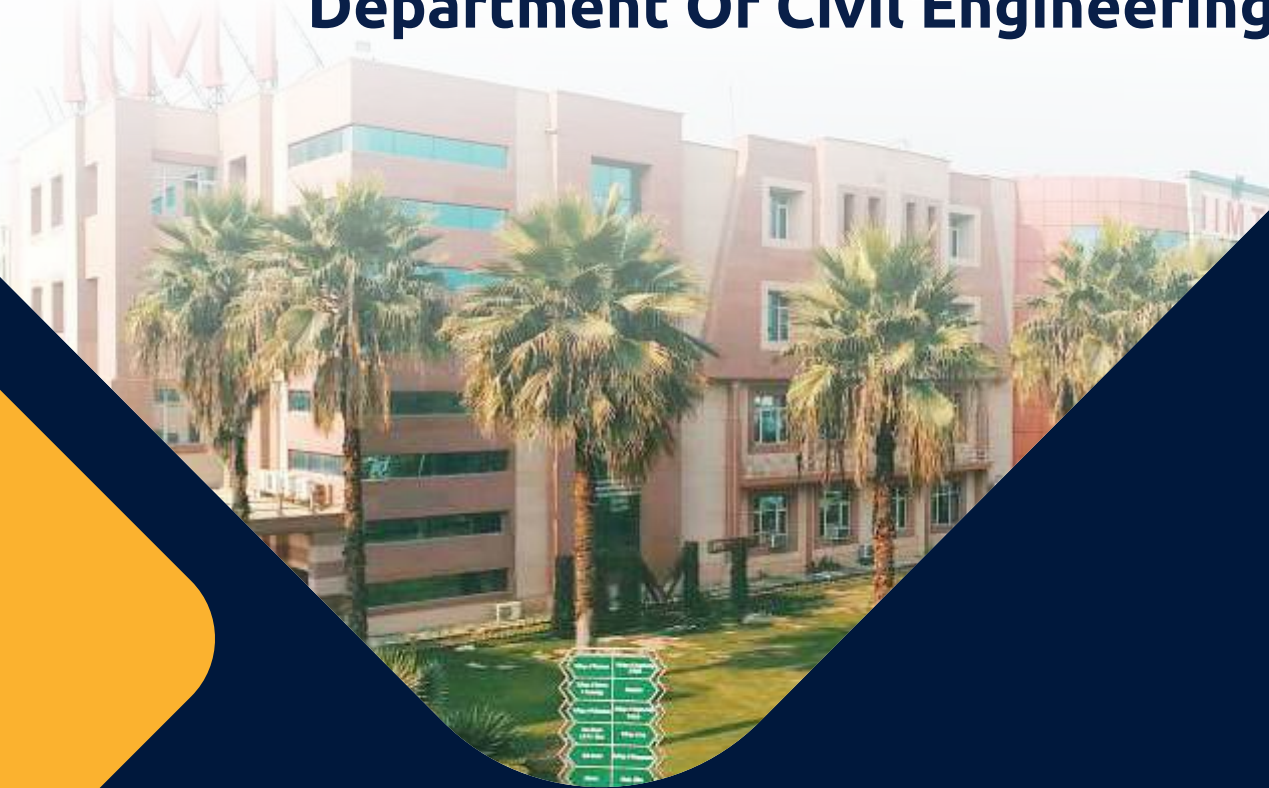
The event was hosted by RICS School of Built Environment, Amity University, Noida. The aim was to provide insights into advanced education programs and their role in shaping careers in the construction built industry. The visit to RICS, Amity University, provided invaluable exposure to students, highlighting the importance of career opportunity in Construction Project Management and Construction Economics. The seminar showcased how RICS-accredited programs equip students with industry-relevant skills and open doors to lucrative career opportunities.



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